HISTORIC PROPERTY INVENTORY FORM

IDENTIFICATION SEC Field Site No. Site Name Historic Common Field Recorder Owner's Name Address City/State/Zip Code		Date Recorded 4 February 1998 perations Office
Status X Survey/Inventory National Register State Register Determined Eligible Determined Not Ell Other (HABS, HAE Local Designation	e igible R, NHL)	Photography Photography Neg. No. (Roll No. & Frame No.) View of All exterior facades Date 4 February 1998 Photo at right: Roll 382, Frame 2 View of north and west elevations
Classification District Status Contributing District/Thematic Non	District Site SR X NR Non-Contributing Hanford Site Manhat	x Building Structure Object LR INV ttan Project and Cold War Historic District
Description Section Materials & Features/S Building Type Plan Structural System No. of Stories Cladding (Exterior Wa Log Horizontal Wood S Rustic/Drop Clapboard Wood Shingle Board and Batten Vertical Board x Asbestos/Asphalt Brick Stone Stucco Terra Cotta Concrete/Concrete	Industry Rectangular Steel Frame One Ill Surfaces) iding	Roof Type Gable Hip X Flat Pyramidal Monitor Other (specify) Gambrel Shed Roof Material Wood Shingle Wood Shake Composition Slate X Tar/Built-up Tile Metal (specify) Other (specify) Not visible Foundation Log Concrete
Vinyl/Aluminum Sid Metal (specify) Other (specify)	(Include detailed description in	Post & Pier Block Stone x Poured Brick Other (specify) Not visible
Integrity Changes to plan Changes to windows Changes to original clad Changes to interior Other (specify)	Description of Physical Appearance) Intact X	Slight Moderate Extensive X X X

State of Washington, Department of Community Development Office of Archaeology and Historic Preservation 111 21st Avenue Southwest, Post Office Box 48343 Olympia, Washington 98504-8343 (206)753-4011

LOCATION SECTI	ΙOΝ
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Address	272-W Building, 200 West Area				
City/Town/County/Zip Code		Richland/Benton County/99352			
Twp 12 N Range 26 E	Section	6 I/4 S	ection SW	1/4 1/4 Sec	
Tax No./Parcel No.			_	Acreage	
Quadrangle or map name		Gable Butte, Washington, 7.5 minute series			
UTM References Zone	11	Easting		Northing	
Plat/Block/Lot		·		<u></u>	
Sunnlemental Man(s)					



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High Styles/Forms (Check one or more of the following)						
	Greek Revival		Spanish Colonial Revival/Mediterranean			
	Gothic Revival		Tudor Revival			
	Italianate		Craftsman/Arts & Crafts			
	Second Empire		Bungalow			
	Romanesque Revival		Prairie Style			
	Stick Style		Art Deco/Art Moderne			
	Queen Anne		Rustic Style			
	Shingle Style		International Style			
	Colonial Revival		Northwest Style			
	Beaux Arts/Neoclassical		Commercial Vernacular			
	Chicago/Commercial Style		Residential Vernacular (see below)			
	American Foursquare	Х	Other (specify)			
	Mission Revival		Industrial Vernacular			
Vern	acular House Types		_			
	Gable Front		Cross Gable			
	Gable Front and Wing		Pyramidal/Hipped			
	Side Gable		Other (specify)			

NARRATIVE SECTION

Study Unit Themes (check one or more of the fo	llowing)	
Agriculture Architecture/Landscape Architecture Arts Commerce Communications Community Planning/Development	Conservation Education Entertainment/Recreation Ethnic Heritage (specify) Health/Medicine Manufacturing/Industry Military	Politics/Government/Law Religion Science & Engineering Social Movements/Organizations Transportation x Other (specify) Cold War Era x Study Unit Sub-Theme(s) Chemical Separation, Facilities Support (Craft); Waste Mangagement; Social
Statement of Significance		History History
Date of Construction 1944 x In the opinion of the surveyor, this property app	Architect/Engineer/Builder E.I. du Pont de Nemours and Cears to meet the criteria of the National Register of Historic Places.	ompany

The 272-W Building was one of two similar shop facilities built at Hanford Engineer Works in the 200 West and 200 East areas. The employees who initially worked there performed general and prototypical machine and tool and die shop tasks, and specifically those related to assembling and fitting the equipment in the 221-T Building, the world's first large-scale chemical separations plant. As built, 272-W contained a sandblasting room, machine shop (lathes, milling machines, drills, etc.), an electrical shop (with special drying oven), a pipe shop, a forge shop, a sheetmetal shop, a carpenter shop, a tool room and crib, restrooms, and offices. The high bay portion originally contained a steel-frame mock-up of the piping connections within some of the chemical separations cells in the 221-T Building. In the late 1940s, the high bay portion was altered to hold a mock-up of the Reduction-Oxidation Plant, finished in 1952, the first full-scale solvent extraction plant in the United States.

The 272-W Building is still serving as a general shops facility for the Hanford site. Because it was an important support structure to the first large-scale chemical separations plant in the world, and the first full-scale solvent extraction plant in the United States, it is the conclusion of the U.S. Department of Energy that the 272-W Building is eligible for inclusion in the National Register of Historic Places as a contributing property within the Hanford Site Manhattan Project and Cold War Era Historic District.

Description of Physical Appearance

Located in the eastern portion of the 200 West Area, the steel-framed 272-E is an essentially rectangular building which is oriented with its long profile running from north to south. It was served by a now unused rail spur which runs through its north end. The flat-roofed, one story building has two parts, a high bay shop section which is approximately 68 feet tall, and a lower service area with offices, restrooms, tool crib, and shop which is about 24 feet high, and which wraps around the high bay portion on the south and west. The roof of the high bay portion is basically flat, with a row of five ventilators placed along the very slightly peaked roofline. The lower portion has an asymmetrical gable roofline, with the shorter part to the east. There are three metal ventilators mounted in a row on the longer, west portion of the roof, and also six air conditioning units. 272-W rests on a concrete foundation and is sheathed in asbestos shingles, which were applied over the original wooden drop siding prior to 1964. There is a small shed-roofed addition at the southwest corner which measures approximately 4 feet by 4 feet.

(See continuation sheet)

Major Bibliographic References

AEC-GE Study Group. 1964. Catalog of Hanford Buildings and Facilities 200 Area. GEH-26434-200. Richland, Washington.

du Pont de Nemours and Company, E.I. 1943. Architectural Drawing W-69368 of 272-W. Wilmington, Delaware.

x In the opinion of the surveyor, this property is located in a potential historic district (National and/or local).

du Pont de Nemours and Company, E.I. 1945. Construction, Hanford Engineer Works, U.S. Contract No. W-7412-ENG-1, du Pont Project 9536, History of the Project, Volume III. HAN-10970. Wilmington, Delaware.

Gerber, M.S. 1993. Manhattan Project Buildings and Facilities at the Hanford Site. WHC-MR-0425. Westinghouse Hanford Company. Richland, Washington.

Sorenson, Don, NDA Team, Fluor-Daniel Hanford Company. 6 May 1998. Telephone Interview. Richland, Washington.